

# ABSTRACT

A system and method of adding hyperlinked information to a television broadcast. The broadcast material is analyzed and one or more regions within a frame are identified. Additional information can be associated with a region, and can be transmitted in encoded form, using timing information to identify the frame with which the information is associated. The system comprising a video source and an encoder that produces a transport stream in communication with the video source, an annotation source, a data packet stream generator that produces encoded annotation data packets in communication with the annotation source and the encoder, and a multiplexer system in communication with the encoder and the data packet stream generator. The encoder provides timestamp information to the data packet stream generator and the data packet stream generator synchronizes annotation data from the annotation source with a video signal from the video source in response to the timestamp information. The multiplexer generates a digital broadcast signal that includes an augmented transport stream from the transport stream and the encoded data packets. A receiver displays the annotation information associated with the video signal in response to a viewer request on a frame by frame basis. A viewer can respond interactively to the material, including performing commercial transactions, by using a backchannel that is provided for interactive communication.

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